

How to change front coil springs on Opel Zafira B A05 – replacement guide

 VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
OPEL ZAFIRA / ZAFIRA FAMILY B (A05) 1.8 (M75), OPEL ZAFIRA B Van (A05) 1.8 (M75)

The steps may slightly vary depending on the car design.



REPLACEMENT: COIL SPRINGS – OPEL ZAFIRA B A05. LIST OF THE TOOLS YOU'LL NEED:



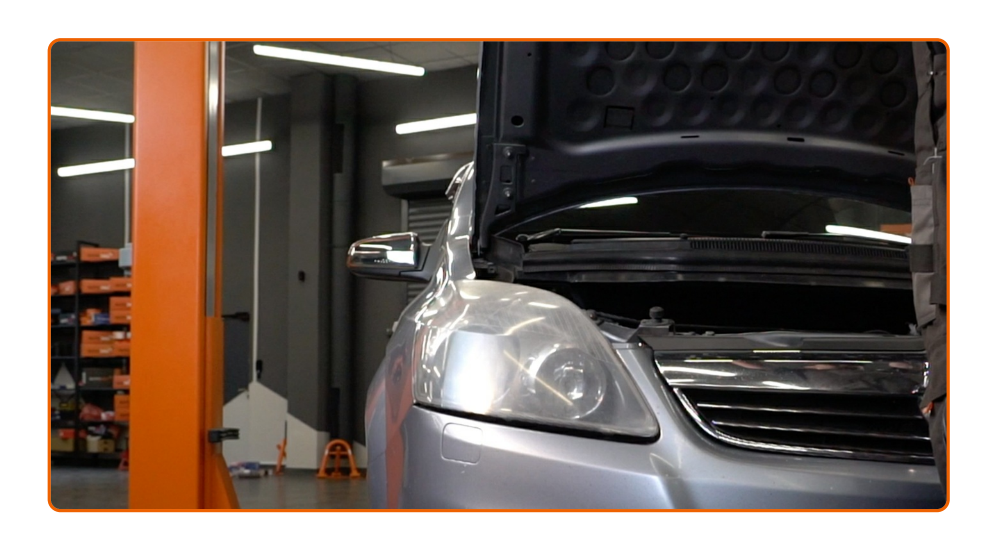
- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Combination spanner #19
- HEX bit no.H6.
- Drive socket # 18
- Drive socket # 19
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Tap wrench
- Clip removal tool
- Water pump pliers
- Crow bar
- Rubber mallet
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Replacement: coil springs – Opel Zafira B A05. AUTODOC experts recommend:

- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- Please note: all work on the car – Opel Zafira B A05 – should be done with the engine switched off.

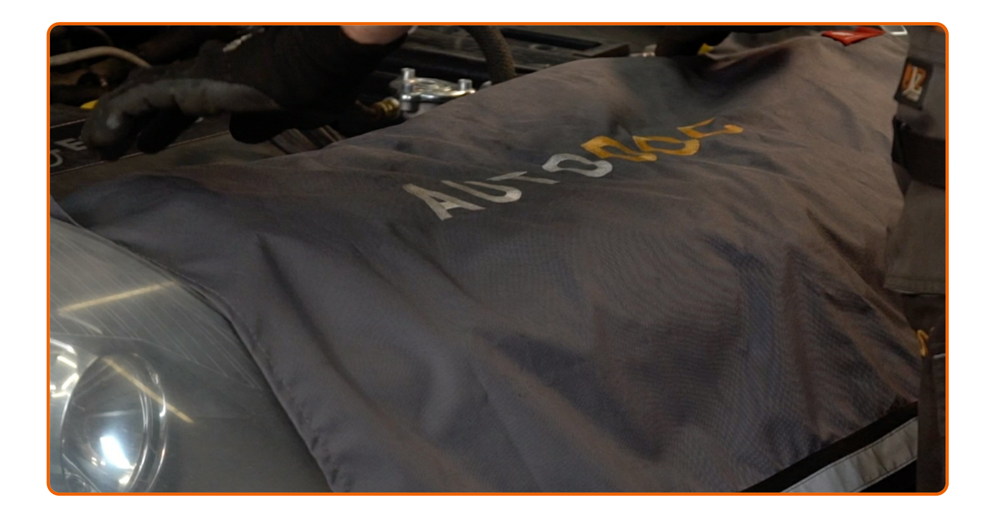
CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1



Open the hood.

2



Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3



Remove the cowl grille seal.

4



Raise up and remove the cowl grille.

5



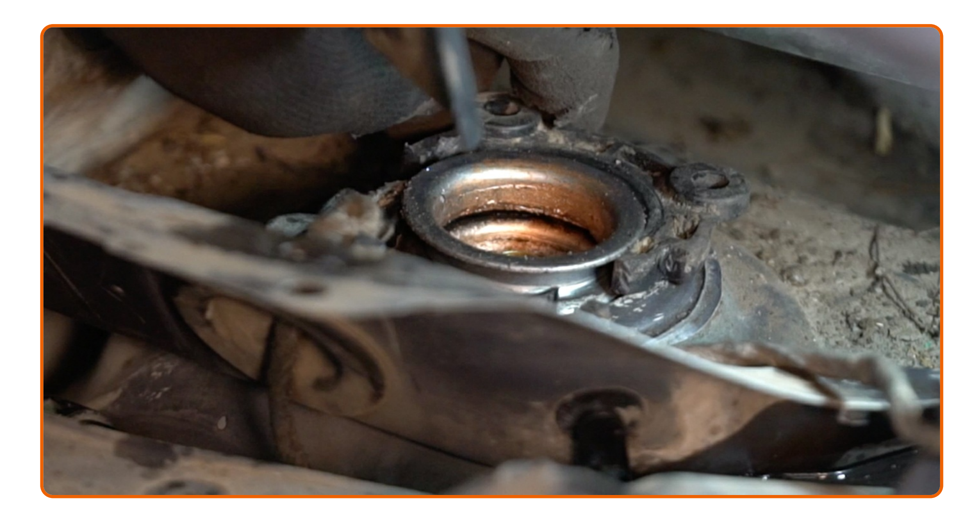
Remove the shock strut mount cap. Use a flat screwdriver.

6



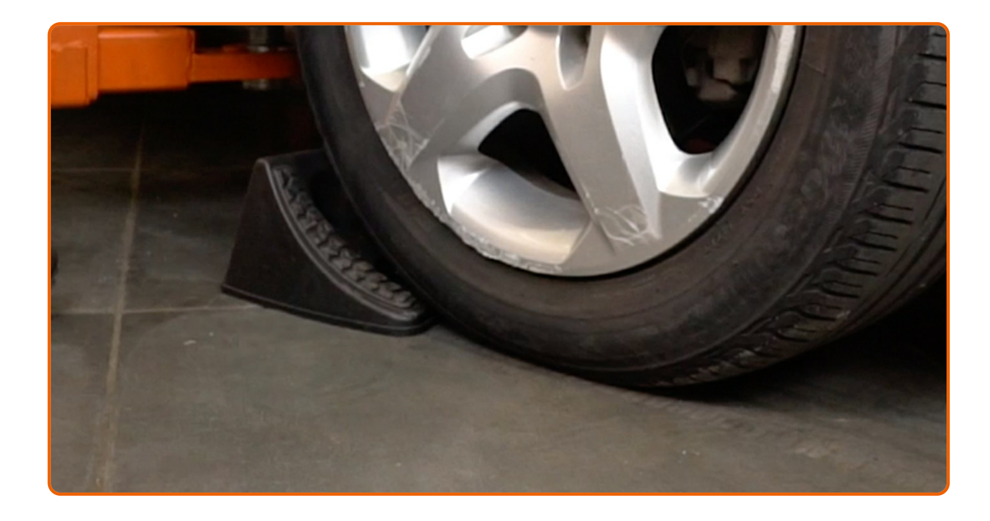
Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

7



Remove the retainer of the shock strut upper mount. Use a clip removal tool.

8



Secure the wheels with chocks.

9



Loosen the wheel mounting bolts. Use wheel impact socket #17.

10



Raise the front of the car and secure on supports.

11

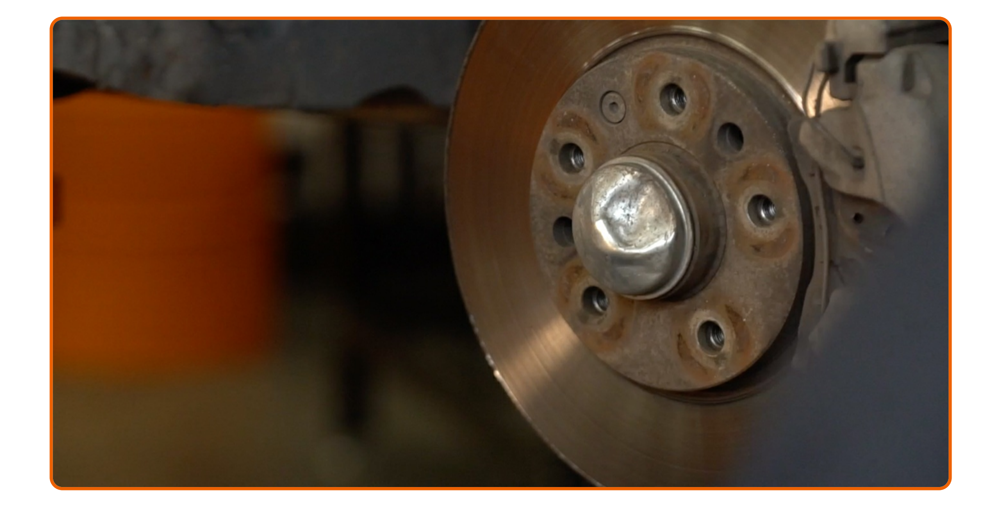


Unscrew the wheel bolts.

AUTODOC recommends:

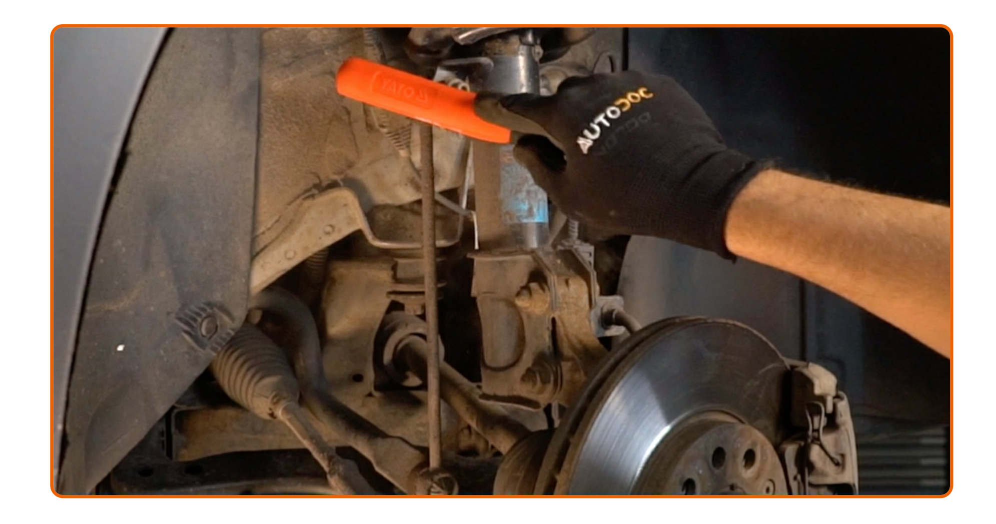
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Opel Zafira B A05

12



Remove the wheel.

13



Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

14



Unscrew the nut and remove the stabilizer rod from the shock strut. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.

15

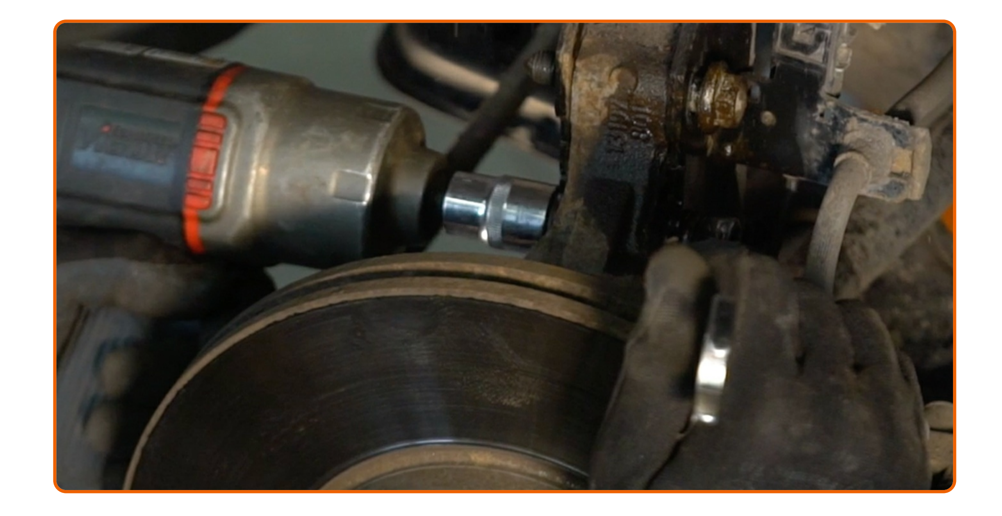
Remove the stabilizer rod.

16



Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

17



Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a tap wrench.

18



Clean the fasteners of the ABS sensor and of the brake hose which connect them to the shock strut. Use a wire brush. Use WD-40 spray.

19



Disconnect the fastener of the ABS sensor cable from the shock absorber strut. Use a flat screwdriver.

20



Detach the brake hose from the shock strut. Use water pump pliers.

21

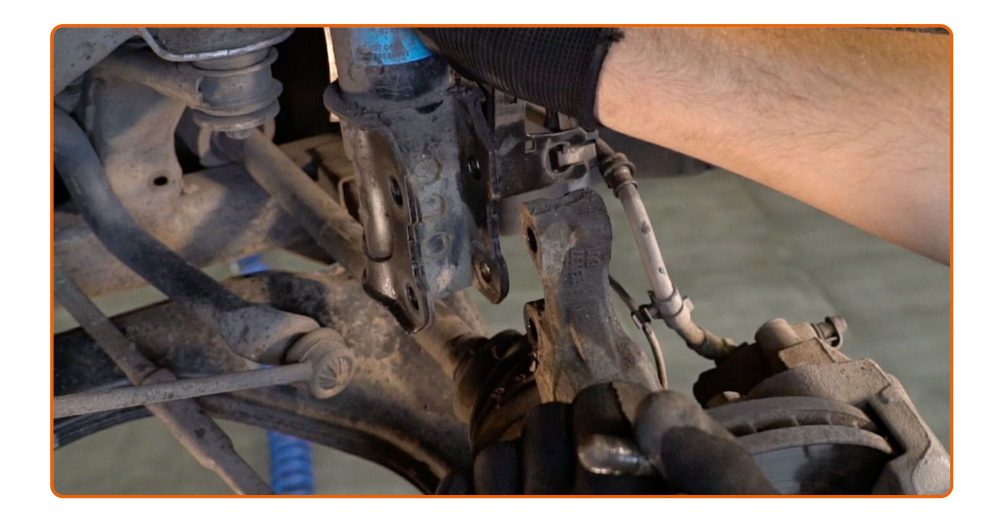
Prop up the steering knuckle. Use a hydraulic transmission jack.

22



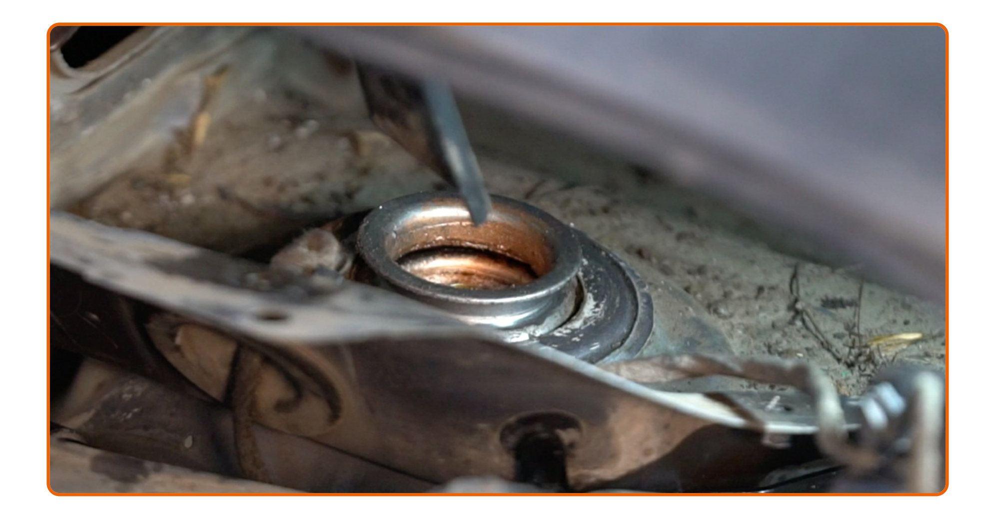
Remove the fastening bolts.

23



Disconnect the steering knuckle from the shock absorber strut. Use a crowbar.

24



Remove the retainer of the shock strut upper mount.

Replacement: coil springs – Opel Zafira B A05. AUTODOC recommends:

- To avoid injury, hold the shock strut firmly when dismantling it.

25



Remove the suspension strut.

26



Set the shock absorber strut on the spring compressor tool.

Replacement: coil springs – Opel Zafira B A05. Tip from AUTODOC experts:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

27



Compress the spring.

28



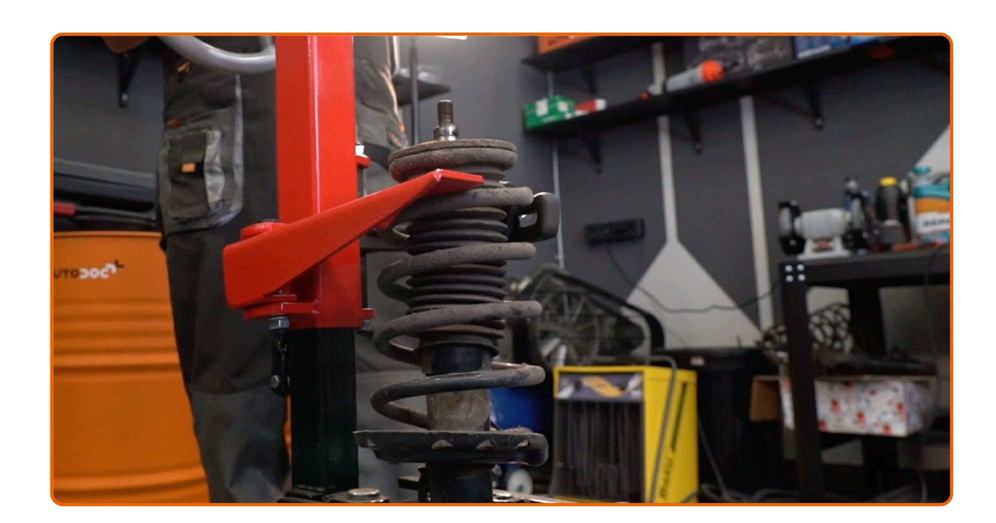
Remove the strut piston rod nut. Use HEX No.H6. Use a drive socket #22. Use a ratchet wrench.

29



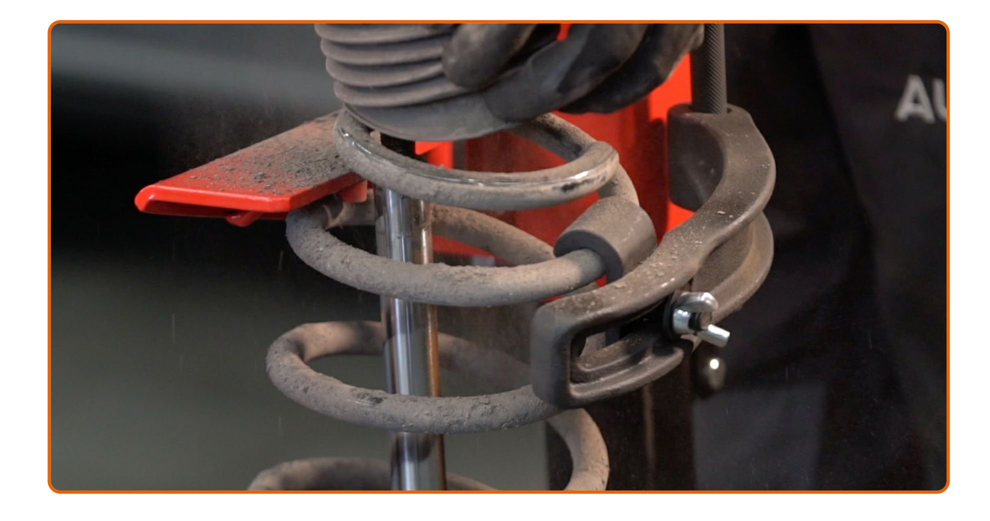
Remove the top strut mount.

30



Release the coil spring.

31



Remove the shock absorber dust cap and the bump stop.

AUTODOC recommends:

- Replacement: coil springs – Opel Zafira B A05. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

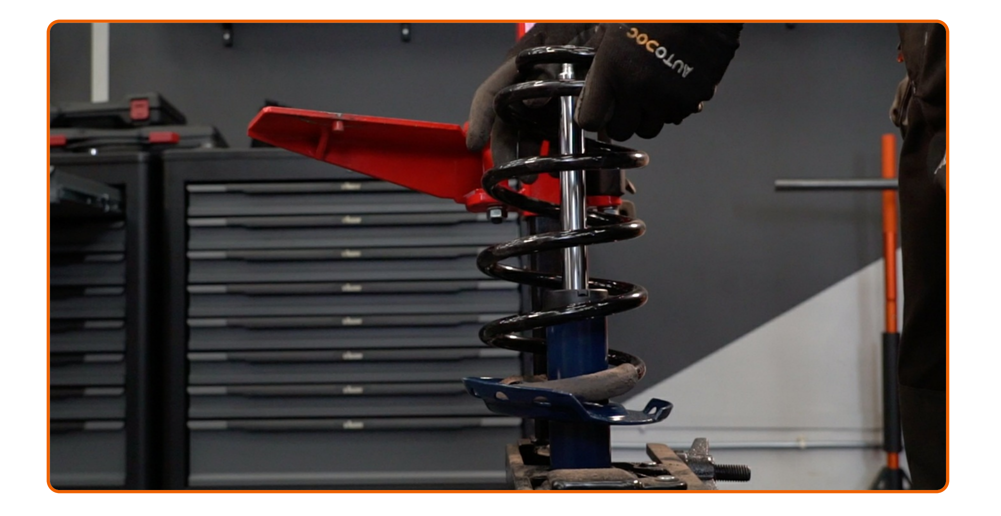
32



Remove the spring.

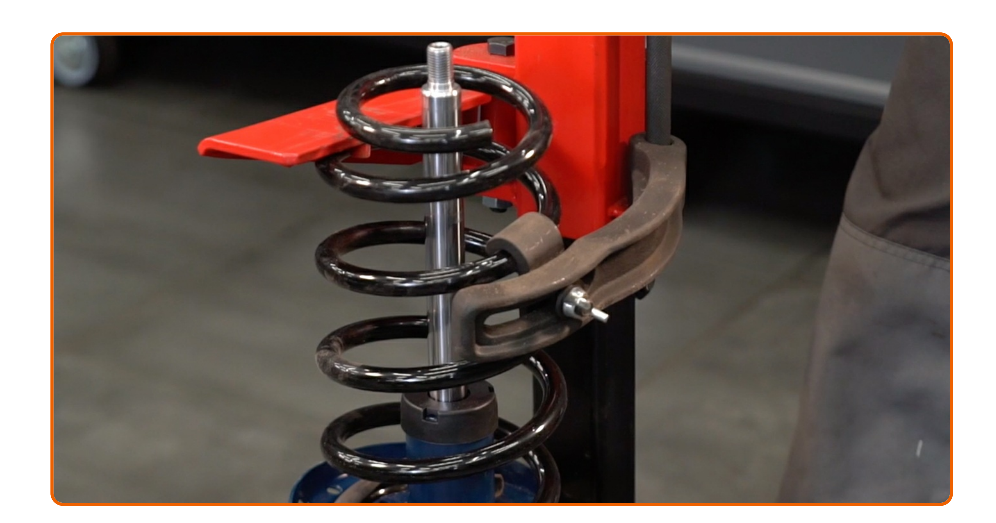


33



Install the spring on the shock absorber.

34



Compress the spring.

35



Install the mount, the boot and the bump stop on the shock absorber.

36



Tighten the shock strut piston rod nut. Use HEX No.H6. Use a drive socket #22. Use a torque wrench. Tighten it to 55 Nm torque.

Replacement: coil springs – Opel Zafira B A05. Tip:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

37



Decompress the spring.

38



Remove the assembled shock strut.

39

Treat the shock strut rod. Use copper grease.

40



Install the shock strut into the wheel arch.

AUTODOC recommends:

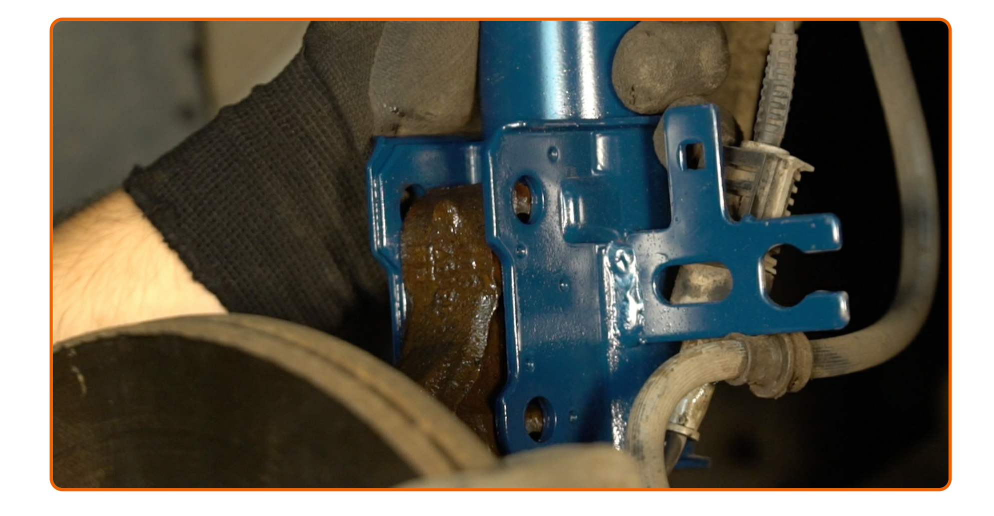
- To avoid injury, hold the shock strut firmly when mounting it.

41



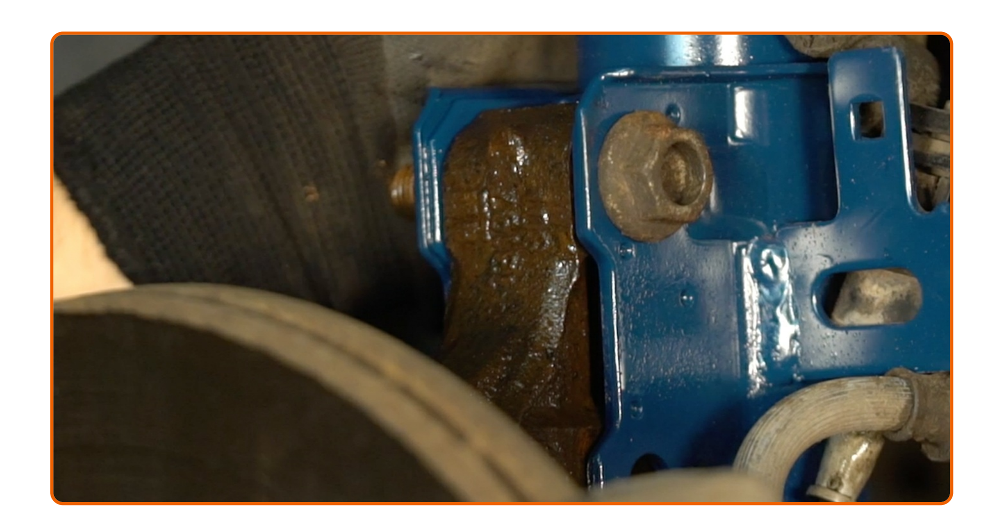
Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.

42



Fix the shock absorber strut on the steering knuckle.

43



Install the fastening bolts.

44



Raise the hydraulic transmission jack by 10-15 cm.

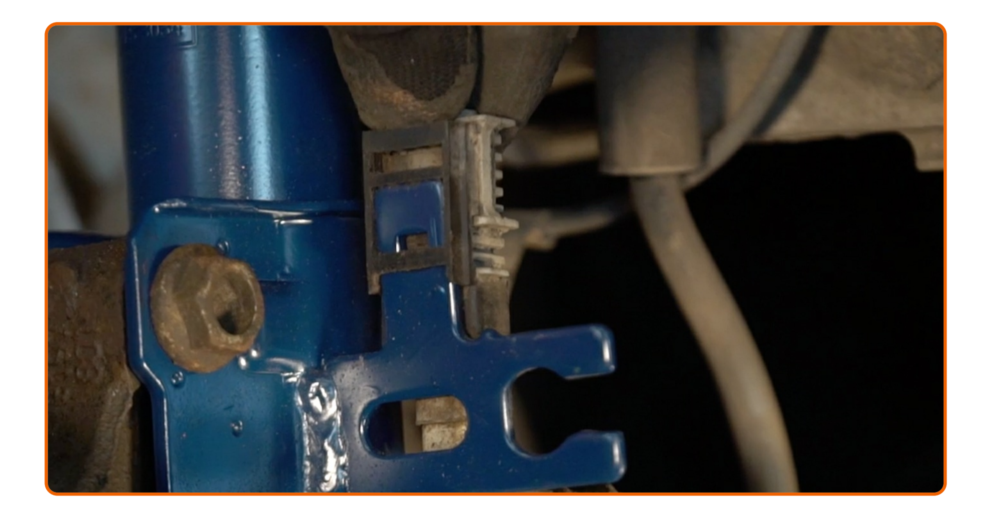
45



Install the retainer of the shock strut upper mount. Use water pump pliers.



46



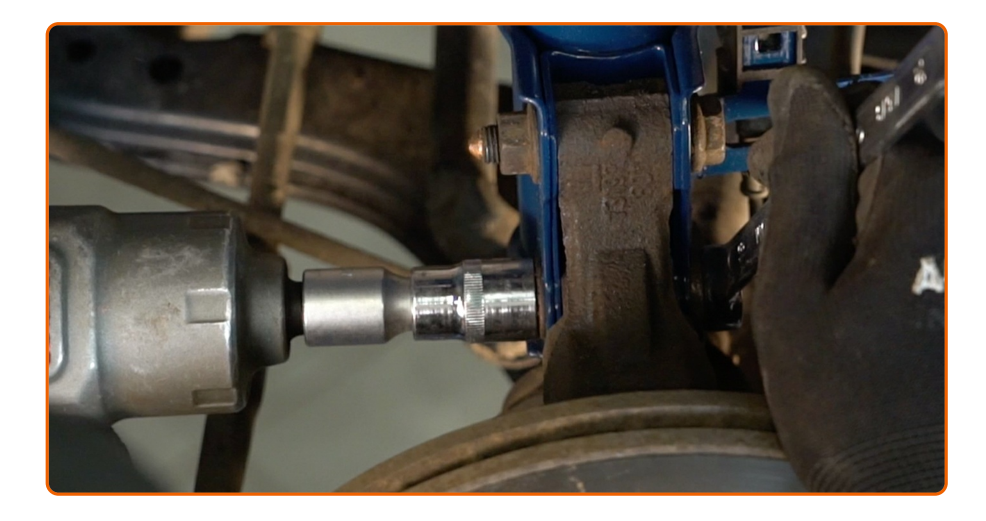
Connect the fastener of the ABS sensor cable to the shock absorber strut.

47



Fasten the brake hose on the strut. Use a rubber mallet.

48



Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 105 Nm torque.

49



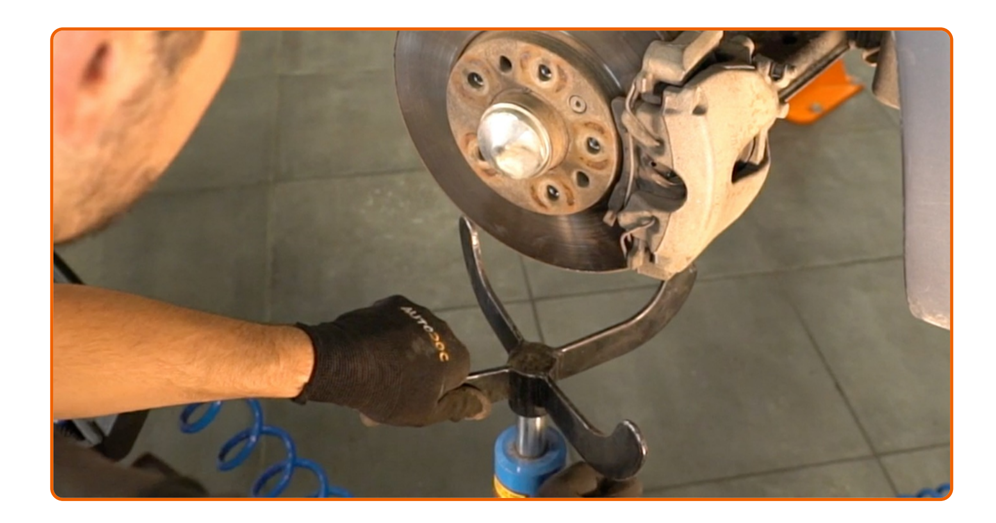
Install the transverse stabilizer link.

50



Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a combination spanner #19. Use a torque wrench. Tighten it to 55 Nm torque.

51



Remove the support from under the steering knuckle.

AUTODOC recommends:

- Replacement: coil springs – Opel Zafira B A05. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

52



Treat the shock strut fasteners. Treat all joints of the arm. Use copper grease.

53



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

54



Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: coil springs – Opel Zafira B A05. After applying the spray, wait a few minutes.

55



Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Opel Zafira B A05

56



Screw in the wheel bolts. Use wheel impact socket #17.

57



Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.

58

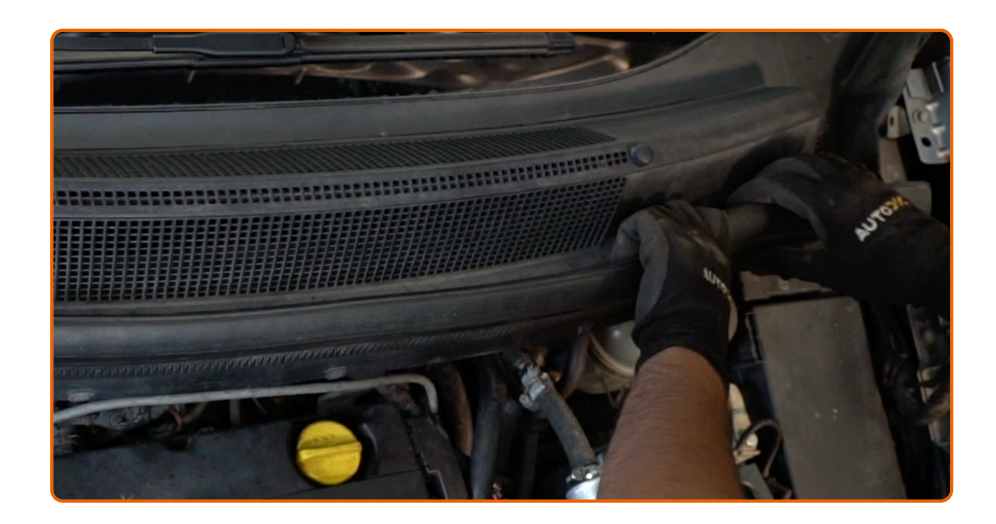


Install and secure the cowl grille.

59

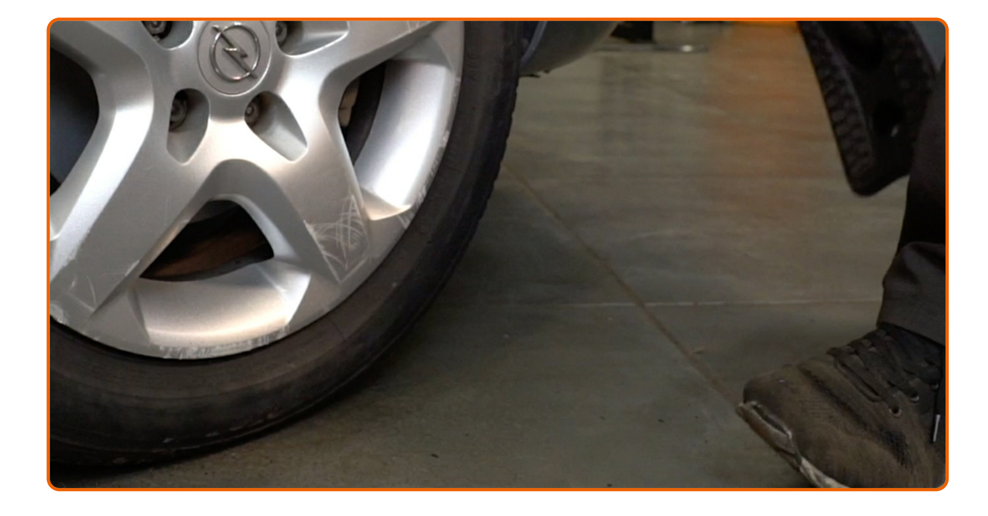
Install the shock strut mount cap.

60



Install the cowl grille seal.

61



Remove the jacks and chocks.

62



Remove the fender protection cover.

63



Close the hood.

DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

NO



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